

## Conservation Practice Physical Effects - Field Windbreak (392)

| Soil Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Negligible<br>Moderate + to Significant +<br>Negligible<br>Not Applicable<br>Not Applicable<br>Negligible to Slight -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight +  |
| Water Resource Problem / Consideration  | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Slight + to Slight -<br>Slight -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Moderate + to Significant +<br>Slight - to Significant -<br>Slight + to Moderate +<br>Negligible<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible<br>Negligible<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible<br>Negligible<br>Negligible<br>Negligible |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration  | Effect  |
|---|---|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u><br><b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Moderate + to Significant +<br>Slight + to Moderate +<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Not Applicable<br><br>Slight + to Moderate +<br>Moderate + to Significant +<br>Slight + to Moderate +                    |
| Plant Resource Problem / Consideration  | Effect  |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br><b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Significant +<br>Significant +<br><br>Moderate + to Significant +<br>Moderate + to Significant +<br>Moderate + to Significant +<br>Moderate + to Significant +<br>Not Applicable<br>Not Applicable<br>Moderate + to Significant +<br>Moderate + to Significant +<br>Slight +<br><br>Moderate + to Significant +<br>Not Applicable<br>Slight + to Slight - |
| Animal Resource Problem / Consideration   | Effect  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br><b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health   | Slight + to Moderate +<br>Slight + to Significant +<br>Negligible<br><br>Slight + to Moderate +<br>Slight + to Significant +<br>Negligible<br><br>Slight + to Moderate +<br>Slight + to Significant +   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Filter Strip (393)

| Soil Resource Problem / Consideration  | Effect   |
|--|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Slight + to Significant +<br>Slight + to Moderate +<br>Negligible to Slight +<br>Negligible to Slight +<br>Moderate + to Slight +<br>Slight +<br>Negligible<br>Slight +<br>Not Applicable<br><br>Negligible<br>Negligible<br><br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br><br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight +   |
| Water Resource Problem / Consideration   | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible<br>Not Applicable<br>Not Applicable<br>Negligible<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br><br>Slight -<br>Slight -<br>Negligible<br>Slight -<br>Negligible to Slight -<br><br>Negligible to Moderate +<br>Slight +<br>Slight + to Moderate +<br>Slight +<br>Slight +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Slight + to Significant + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air</b> Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) Airborne Sediment Particulates Causing Conveyance Problems<br>(h) Airborne Chemical Drift: Onsite<br>(i) Airborne Chemical Drift: Offsite<br>(j) Airborne Odors | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable           |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Slight +<br>Slight +<br>Slight +   |
| <b>Plant</b> Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Significant +<br>Significant +   |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Slight + to Slight -<br>Slight + to Slight -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Slight -<br>Slight + to Slight -<br>Not Applicable |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Not Applicable<br>Not Applicable<br>Slight - to Moderate -   |
| <b>Animal</b> Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Negligible to Moderate +<br>Negligible to Significant +<br>Slight + to Significant +<br>Negligible to Moderate +<br>Negligible to Significant +<br>Slight + to Significant +           |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Negligible to Slight +<br>Slight - to Moderate -   |

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## Conservation Practice Physical Effects - Firebreak (394)

| Soil Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Significant + to Slight -<br>Negligible to Moderate -<br>Significant + to Significant -<br>Significant + to Significant -<br>Slight + to Significant +<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible to Slight -<br><br>Significant + to Slight -<br>Slight - to Significant -<br><br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible to Slight -<br><br>Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant + |
| Water Resource Problem / Consideration  | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible<br>Significant + to Moderate -<br>Negligible<br>Slight - to Moderate -<br>Not Applicable<br>Significant +<br>Moderate +<br>Slight + to Moderate +<br>Slight + to Significant +<br><br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible<br>Negligible<br>Negligible<br><br>Negligible to Slight -<br>Negligible to Slight -<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Negligible<br>Slight + to Significant +<br>Negligible<br>Slight + to Significant +          |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect  |
|--|---|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u><br><b>2. Condition</b><br>(a) <u>Air Temperature</u><br>(b) <u>Air Movement</u><br>(c) <u>Humidity</u> | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Not Applicable<br>Not Applicable<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable   |
| Plant Resource Problem / Consideration   | Effect  |
| <b>1. Suitability</b><br>(a) <u>Plants are not well adapted to site</u><br>(b) <u>Plants are unsuitable for intended use</u><br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) <u>Cropland</u><br>(b) <u>Hayland and Pastureland</u><br>(c) <u>Rangeland</u><br>(d) <u>Seeded Rangeland</u><br>(e) <u>Annual Rangeland</u><br>(f) <u>Forestland</u><br>(g) <u>Other Land (Wildlife, Recreation, etc.)</u><br>(h) <u>Health and Vigor</u><br>(i) <u>Plant Damage by Wind Erosion</u><br><b>3. Management</b><br>(a) <u>Establishment, Growth, and Harvest</u><br>(b) <u>Nutrient Management</u><br>(c) <u>Pests (Brush, Weeds, Insects, Diseases, and Fungi)</u>  | Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible to Moderate -<br>Moderate + to Significant +<br>Not Applicable<br>Negligible |
| Animal Resource Problem / Consideration  | Effect  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) <u>Food</u><br>(b) <u>Cover or Shelter</u><br>(c) <u>Quantity and Quality of Drinking Water</u><br><u>Wildlife</u><br>(d) <u>Food</u><br>(e) <u>Cover or Shelter</u><br>(f) <u>Quantity and Quality of Drinking Water</u><br><b>2. Management</b><br>(a) <u>Population / Resource Balance</u><br>(b) <u>Animal Health</u>  | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Not Applicable   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

Conservation Practice Physical Effects - Fish Stream Improvement (395)

| Soil Resource Problem / Consideration  | Effect                      |
|--|-----------------------------|
| 1. Erosion   |                             |
| (a) Sheet and Rill   | Slight + to Significant +   |
| (b) Wind   | Negligible                  |
| (c) Concentrated Flow: Ephemeral Gully   | Slight + to Significant +   |
| (d) Concentrated Flow: Classic Gully   | Slight + to Significant +   |
| (e) Streambank   | Moderate + to Significant + |
| (f) Irrigation Induced   | Moderate +                  |
| (g) Soil Mass Movement   | Slight + to Significant +   |
| (h) Roadbanks and Construction Sites   | Slight + to Significant +   |
| (i) Safety   | Slight + to Significant +   |
| 2. Condition   |                             |
| (a) Soil Tilth, Crusting, Water Infiltration, Organic Material                             | Slight +                    |
| (b) Soil Compaction  | Negligible                  |
| <u>Soil Contaminants</u>   |                             |
| (c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals                       | Moderate +                  |
| (d) Excess Animal Wastes & Other Organics  | Negligible to Significant + |
| (e) Excess Fertilizer  | Negligible to Significant + |
| (f) Excess Pesticides  | Negligible to Significant + |
| 3. Deposition  |                             |
| (a) Damage: Onsite   | Slight +                    |
| (b) Damage: Offsite  | Slight + to Significant +   |
| (c) Safety: Onsite   | Slight +                    |
| (d) Safety: Offsite  | Slight +                    |
| <b>Water Resource Problem / Consideration</b>  | <b>Effect</b>               |
| 1. Quantity  |                             |
| (a) Excess Amounts: Seeps  | Negligible                  |
| (b) Excess Amounts: Runoff / Flooding  | Slight + to Significant +   |
| (c) Excess Amounts: Subsurface Water   | Negligible to Slight +      |
| (d) Inadequate Outlets   | Negligible to Significant + |
| (e) Water Management for Irrigated Land  | Negligible to Significant + |
| (f) Water Management for Non- Irrigated Land   | Negligible to Significant + |
| (g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite  | Negligible to Significant + |
| (h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite | Negligible to Significant + |
| (i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes       | Negligible to Significant + |
| 2. Quality   |                             |
| <u>Groundwater Contaminants</u>  |                             |
| (a) Pesticides   | Negligible to Moderate +    |
| (b) Nutrients and Organics   | Negligible to Moderate +    |
| (c) Salinity   | Negligible to Moderate +    |
| (d) Heavy Metals   | Negligible to Moderate +    |
| (e) Pathogens  | Negligible to Moderate +    |
| <u>Surface Water Contaminants (Streams and Lakes)</u>                                      |                             |
| (g) Pesticides   | Negligible to Moderate +    |
| (h) Nutrients and Organics   | Negligible to Moderate +    |
| (i) Suspended Sediment and Turbidity   | Negligible to Moderate +    |
| (j) Low Dissolved Oxygen   | Moderate + to Significant + |
| (k) Salinity   | Negligible to Significant + |
| (l) Heavy Metals   | Negligible to Significant + |
| (m) Temperature  | Negligible to Significant + |
| (n) Pathogens  | Negligible to Significant + |
| (o) Aquatic Habitat Suitability  | Negligible to Significant + |

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| Air Resource Problem / Consideration   | Effect   |
|--|--|
| 1. Quality<br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br>2. Condition<br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Moderate +<br>Negligible to Significant +<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable  |
| Plant Resource Problem / Consideration   | Effect   |
| 1. Suitability<br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br>2. Condition<br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br>3. Management<br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Negligible to Significant +<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Significant +<br>Significant +<br>Not Applicable |
| Animal Resource Problem / Consideration  | Effect   |
| 1. Habitat<br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br>2. Management<br>(a) Population / Resource Balance<br>(b) Animal Health  | Moderate +<br>Moderate +<br>Moderate + to Significant +<br>Moderate +<br>Moderate +<br>Moderate + to Significant +<br>Slight + to Significant +<br>Negligible to Moderate +  |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Fishpond Mgt. (399)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Significant +<br>Slight +<br>Significant +<br>Significant +<br>Significant +<br>Moderate + to Significant +<br>Significant +<br>Significant +<br>Negligible<br>Slight +<br>Negligible<br>Moderate +<br>Moderate +<br>Moderate + to Significant +<br>Moderate +<br>Slight +<br>Slight + to Significant +<br>Slight +<br>Slight +   |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible<br>Slight + to Significant +<br>Negligible to Slight +<br>Negligible to Significant +<br>Negligible to Significant +<br>Significant +<br>Significant +<br>Moderate + to Significant +<br>Significant +<br>Moderate + to Significant +<br>Negligible to Moderate +<br>Significant +<br>Significant +<br>Negligible to Moderate +<br>Significant +<br>Significant +<br>Significant +<br>Significant +<br>Significant +<br>Moderate + to Significant +<br>Significant +<br>Significant +<br>Significant + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect  |
|--|---|
| 1. Quality<br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br>2. Condition<br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Moderate +<br>Moderate +<br>Moderate +<br>Not Applicable<br>Not Applicable<br>Not Applicable  |
| Plant Resource Problem / Consideration   | Effect  |
| 1. Suitability<br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br>2. Condition<br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br>3. Management<br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Negligible to Significant +<br>Moderate +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Significant +<br>Significant +<br>Not Applicable |
| Animal Resource Problem / Consideration  | Effect  |
| 1. Habitat<br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br>2. Management<br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Significant +<br>Significant +  |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Floodway (404)

| Soil Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Negligible<br>Negligible<br>Negligible<br>Slight + to Moderate +<br>Slight + to Significant +<br>Negligible<br>Slight +<br>Negligible<br>Slight + to Moderate +<br><br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Slight +<br>Slight + to Moderate +<br>Slight +<br>Slight + to Moderate +  |
| Water Resource Problem / Consideration  | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Slight +<br>Moderate - to Significant +<br>Negligible<br>Slight + to Significant +<br>Slight +<br>Negligible<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br><br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Slight - to Slight +<br>Negligible |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration  | Effect                   |
|---|--------------------------|
| 1. Quality  |                          |
| (a) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Onsite                  | Negligible               |
| (b) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Offsite                 | Negligible               |
| (c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Onsite  | Negligible               |
| (d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Offsite | Negligible               |
| (e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Onsite         | Negligible               |
| (f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Offsite        | Negligible               |
| (g) Airborne Sediment Particulates Causing Conveyance Problems                              | Negligible               |
| (h) Airborne Chemical Drift: Onsite   | Negligible               |
| (i) Airborne Chemical Drift: Offsite  | Negligible               |
| (j) Airborne Odors  | Negligible               |
| 2. Condition  |                          |
| (a) Air Temperature   | Negligible               |
| (b) Air Movement  | Negligible               |
| (c) Humidity  | Negligible               |
| <b>Plant Resource Problem / Consideration</b>   | <b>Effect</b>            |
| 1. Suitability  |                          |
| (a) Plants are not well adapted to site   | Slight - to Slight +     |
| (b) Plants are unsuitable for intended use  | Negligible               |
| 2. Condition  |                          |
| <u>Productivity (Kinds, Amounts, &amp; Distribution)</u>                                    |                          |
| (a) Cropland  | Slight +                 |
| (b) Hayland and Pastureland   | Slight +                 |
| (c) Rangeland   | Slight +                 |
| (d) Seeded Rangeland  | Slight +                 |
| (e) Annual Rangeland  | Not Applicable           |
| (f) Forestland  | Slight +                 |
| (g) Other Land (Wildlife, Recreation, etc.)   | Slight +                 |
| (h) Health and Vigor  | Negligible to Slight +   |
| (i) Plant Damage by Wind Erosion  | Negligible               |
| 3. Management   |                          |
| (a) Establishment, Growth, and Harvest  | Slight + to Moderate +   |
| (b) Nutrient Management   | Negligible               |
| (c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)                                      | Slight - to Negligible   |
| <b>Animal Resource Problem / Consideration</b>  | <b>Effect</b>            |
| 1. Habitat  |                          |
| <u>Domestic Animals</u>   |                          |
| (a) Food  | Negligible to Slight +   |
| (b) Cover or Shelter  | Negligible               |
| (c) Quantity and Quality of Drinking Water  | Negligible to Slight +   |
| <u>Wildlife</u>   |                          |
| (d) Food  | Negligible to Slight +   |
| (e) Cover or Shelter  | Negligible to Moderate + |
| (f) Quantity and Quality of Drinking Water  | Negligible to Slight +   |
| 2. Management   |                          |
| (a) Population / Resource Balance   | Negligible               |
| (b) Animal Health   | Negligible               |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

### Conservation Practice Physical Effects - Grade Stabilization Structure (410)

| Soil Resource Problem / Consideration   | Effect                      |
|---|-----------------------------|
| 1. Erosion  |                             |
| (a) Sheet and Rill  | Not Applicable              |
| (b) Wind  | Not Applicable              |
| (c) Concentrated Flow: Ephemeral Gully  | Negligible                  |
| (d) Concentrated Flow: Classic Gully  | Significant +               |
| (e) Streambank  | Negligible to Significant + |
| (f) Irrigation Induced  | Not Applicable              |
| (g) Soil Mass Movement  | Not Applicable              |
| (h) Roadbanks and Construction Sites  | Negligible to Moderate +    |
| (i) Safety  | Not Applicable              |
| 2. Condition  |                             |
| (a) Soil Tilth, Crusting, Water Infiltration, Organic Material                              | Not Applicable              |
| (b) Soil Compaction   | Not Applicable              |
| <u>Soil Contaminants</u>  |                             |
| (c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals                        | Not Applicable              |
| (d) Excess Animal Wastes & Other Organics   | Not Applicable              |
| (e) Excess Fertilizer   | Not Applicable              |
| (f) Excess Pesticides   | Not Applicable              |
| 3. Deposition   |                             |
| (a) Damage: Onsite  | Negligible to Significant + |
| (b) Damage: Offsite   | Negligible to Significant + |
| (c) Safety: Onsite  | Negligible to Significant + |
| (d) Safety: Offsite   | Negligible to Significant + |
| <b>Water Resource Problem / Consideration</b>   | <b>Effect</b>               |
| 1. Quantity   |                             |
| (a) Excess Amounts: Seeps   | Not Applicable              |
| (b) Excess Amounts: Runoff / Flooding   | Not Applicable              |
| (c) Excess Amounts: Subsurface Water  | Not Applicable              |
| (d) Inadequate Outlets  | Significant +               |
| (e) Water Management for Irrigated Land   | Not Applicable              |
| (f) Water Management for Non- Irrigated Land  | Negligible to Significant + |
| (g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite  | Slight + to Significant +   |
| (h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite | Slight + to Significant +   |
| (i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes       | Slight + to Significant +   |
| 2. Quality  |                             |
| <u>Groundwater Contaminants</u>   |                             |
| (a) Pesticides  | Negligible                  |
| (b) Nutrients and Organics  | Negligible                  |
| (c) Salinity  | Negligible                  |
| (d) Heavy Metals  | Negligible                  |
| (e) Pathogens   | Negligible                  |
| <u>Surface Water Contaminants (Streams and Lakes)</u>                                       |                             |
| (g) Pesticides  | Negligible                  |
| (h) Nutrients and Organics  | Negligible                  |
| (i) Suspended Sediment and Turbidity  | Slight + to Moderate +      |
| (j) Low Dissolved Oxygen  | Negligible                  |
| (k) Salinity  | Negligible                  |
| (l) Heavy Metals  | Negligible                  |
| (m) Temperature   | Negligible                  |
| (n) Pathogens   | Negligible                  |
| (o) Aquatic Habitat Suitability   | Negligible to Slight +      |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

Conservation Practice Physical Effects - Grade Stabilization Structure (410), page 2

| Air Resource Problem / Consideration  | Effect   |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u> | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable       |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Not Applicable<br>Not Applicable<br>Not Applicable   |
| Plant Resource Problem / Consideration  | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Moderate + to Significant +<br>Not Applicable  |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible                                       |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Moderate + to Significant +<br>Not Applicable<br>Not Applicable  |
| Animal Resource Problem / Consideration   | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Negligible to Moderate +<br>Negligible to Moderate +<br>Negligible to Moderate +<br>Negligible to Moderate +<br>Negligible to Moderate +<br>Negligible to Moderate + |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Negligible<br>Not Applicable   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Grassed Waterway (412)

| Soil Resource Problem / Consideration   | Effect                      |
|---|-----------------------------|
| 1. Erosion  |                             |
| (a) Sheet and Rill  | Negligible                  |
| (b) Wind  | Negligible                  |
| (c) Concentrated Flow: Ephemeral Gully  | Significant +               |
| (d) Concentrated Flow: Classic Gully  | Significant +               |
| (e) Streambank  | Not Applicable              |
| (f) Irrigation Induced  | Not Applicable              |
| (g) Soil Mass Movement  | Not Applicable              |
| (h) Roadbanks and Construction Sites  | Significant +               |
| (i) Safety  | Negligible                  |
| 2. Condition  |                             |
| (a) Soil Tilth, Crusting, Water Infiltration, Organic Material                      | Negligible                  |
| (b) Soil Compaction   | Negligible                  |
| Soil Contaminants   |                             |
| (c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals                | Negligible                  |
| (d) Excess Animal Wastes & Other Organics   | Negligible                  |
| (e) Excess Fertilizer   | Negligible                  |
| (f) Excess Pesticides   | Negligible                  |
| 3. Deposition   |                             |
| (a) Damage: Onsite  | Negligible to Slight +      |
| (b) Damage: Offsite   | Slight +                    |
| (c) Safety: Onsite  | Slight +                    |
| (d) Safety: Offsite   | Slight + to Moderate +      |
| Water Resource Problem / Consideration  | Effect                      |
| 1. Quantity   |                             |
| (a) Excess Amounts: Seeps   | Negligible                  |
| (b) Excess Amounts: Runoff / Flooding   | Moderate + to Significant + |
| (c) Excess Amounts: Subsurface Water  | Negligible                  |
| (d) Inadequate Outlets  | Slight + to Significant +   |
| (e) Water Management for Irrigated Land   | Negligible                  |
| (f) Water Management for Non- Irrigated Land  | Not Applicable              |
| (g) Restricted Capacity From Sediment Deposition in Small Water Conveyance: Onsite  | Slight + to Moderate +      |
| (h) Restricted Capacity From Sediment Deposition in Small Water Conveyance: Offsite | Moderate + to Significant + |
| (i) Restricted Capacity For Sediment Deposition: Water Bodies, Streams, Lakes       | Slight + to Moderate +      |
| 2. Quality  |                             |
| Groundwater Contaminants  |                             |
| (a) Pesticides  | Negligible to Slight -      |
| (b) Nutrients and Organics  | Negligible to Slight -      |
| (c) Salinity  | Negligible                  |
| (d) Heavy Metals  | Negligible                  |
| (e) Pathogens   | Negligible                  |
| Surface Water Contaminants (Streams and Lakes)                                      |                             |
| (g) Pesticides  | Slight + to Moderate +      |
| (h) Nutrients and Organics  | Slight + to Moderate +      |
| (i) Suspended Sediment and Turbidity  | Slight + to Moderate +      |
| (j) Low Dissolved Oxygen  | Negligible to Slight +      |
| (k) Salinity  | Negligible                  |
| (l) Heavy Metals  | Negligible                  |
| (m) Temperature   | Negligible                  |
| (n) Pathogens   | Negligible                  |
| (o) Aquatic Habitat Suitability   | Negligible to Moderate +    |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air Resource Problem / Consideration</b>   | <b>Effect</b>  |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Offsite<br>(g) Airborne Sediment Particulates Causing Conveyance Problems<br>(h) <u>Airborne Chemical Drift:</u> Onsite<br>(i) <u>Airborne Chemical Drift:</u> Offsite<br>(j) Airborne Odors | Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible   |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Not Applicable<br>Negligible<br>Not Applicable   |
| <b>Plant Resource Problem / Consideration</b>   | <b>Effect</b>  |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Significant +<br>Significant +   |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Slight + to Slight -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Slight -<br>Slight +               |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Slight +<br>Not Applicable<br>Slight -   |
| <b>Animal Resource Problem / Consideration</b>  | <b>Effect</b>  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Negligible to Significant +<br>Slight + to Significant +<br>Negligible to Significant +<br>Negligible to Significant +<br>Slight + to Significant +<br>Negligible to Significant + |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight + to Moderate +<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - **Grazing Land Mech. Treat. (Pitting)** (548)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Not Applicable<br>Slight +<br>Negligible<br>Negligible<br>Moderate + to Significant +<br>Negligible to Slight +<br>Slight + to Moderate +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +  |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Negligible<br>Slight +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Slight + to Moderate + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect   |
|--|--|
| 1. Quality<br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br>2. Condition<br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Slight +<br>Slight +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight +<br>Slight +<br>Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible to Slight +<br>Negligible to Slight +   |
| Plant Resource Problem / Consideration   | Effect   |
| 1. Suitability<br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br>2. Condition<br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br>3. Management<br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Slight + to Significant +<br>Moderate + to Significant +<br>Not Applicable<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Significant +<br>Not Applicable<br>Slight + to Moderate + |
| Animal Resource Problem / Consideration  | Effect   |
| 1. Habitat<br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br>2. Management<br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Moderate + to Significant +<br>Negligible  |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

Conservation Practice Physical Effects - **Grazing Land Mech. Treat. (Cont. Furrow)**  
(548)

| Soil Resource Problem / Consideration  | Effect                      |
|--|-----------------------------|
| 1. Erosion   |                             |
| (a) Sheet and Rill   | Slight + to Significant +   |
| (b) Wind   | Slight + to Moderate +      |
| (c) Concentrated Flow: Ephemeral Gully   | Slight + to Moderate +      |
| (d) Concentrated Flow: Classic Gully   | Slight + to Moderate +      |
| (e) Streambank   | Slight + to Moderate +      |
| (f) Irrigation Induced   | Not Applicable              |
| (g) Soil Mass Movement   | Slight +                    |
| (h) Roadbanks and Construction Sites   | Negligible                  |
| (i) Safety   | Negligible                  |
| 2. Condition   |                             |
| (a) Soil Tilth, Crusting, Water Infiltration, Organic Material                             | Moderate + to Significant + |
| (b) Soil Compaction  | Negligible to Slight +      |
| <u>Soil Contaminants</u>   |                             |
| (c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals                       | Slight + to Moderate +      |
| (d) Excess Animal Wastes & Other Organics  | Not Applicable              |
| (e) Excess Fertilizer  | Not Applicable              |
| (f) Excess Pesticides  | Not Applicable              |
| 3. Deposition  |                             |
| (a) Damage: Onsite   | Slight + to Moderate +      |
| (b) Damage: Offsite  | Slight + to Moderate +      |
| (c) Safety: Onsite   | Slight + to Moderate +      |
| (d) Safety: Offsite  | Slight + to Moderate +      |
| <b>Water Resource Problem / Consideration</b>  | <b>Effect</b>               |
| 1. Quantity  |                             |
| (a) Excess Amounts: Seeps  | Slight + to Moderate +      |
| (b) Excess Amounts: Runoff / Flooding  | Slight + to Moderate +      |
| (c) Excess Amounts: Subsurface Water   | Slight + to Moderate +      |
| (d) Inadequate Outlets   | Negligible                  |
| (e) Water Management for Irrigated Land  | Slight +                    |
| (f) Water Management for Non- Irrigated Land   | Slight + to Moderate +      |
| (g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite  | Slight + to Significant +   |
| (h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite | Slight + to Moderate +      |
| (i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes       | Slight + to Moderate +      |
| 2. Quality   |                             |
| <u>Groundwater Contaminants</u>  |                             |
| (a) Pesticides   | Negligible                  |
| (b) Nutrients and Organics   | Negligible                  |
| (c) Salinity   | Negligible                  |
| (d) Heavy Metals   | Negligible                  |
| (e) Pathogens  | Negligible                  |
| <u>Surface Water Contaminants (Streams and Lakes)</u>                                      |                             |
| (g) Pesticides   | Negligible                  |
| (h) Nutrients and Organics   | Negligible                  |
| (i) Suspended Sediment and Turbidity   | Slight + to Moderate +      |
| (j) Low Dissolved Oxygen   | Negligible                  |
| (k) Salinity   | Negligible                  |
| (l) Heavy Metals   | Negligible                  |
| (m) Temperature  | Negligible                  |
| (n) Pathogens  | Negligible                  |
| (o) Aquatic Habitat Suitability  | Slight + to Moderate +      |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect   |
|--|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br><b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Slight +<br>Slight +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight +<br>Slight +<br>Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible to Slight +<br>Negligible to Slight +   |
| Plant Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br><b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Slight + to Significant +<br>Moderate + to Significant +<br>Not Applicable<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Significant +<br>Not Applicable<br>Slight + to Moderate + |
| Animal Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br><b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Moderate + to Significant +<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Heavy Use Area Protection (561)

| Soil Resource Problem / Consideration  | Effect   |
|--|--|
| <b>1. Erosion</b><br>(a) Sheet and Fill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Moderate + to Significant +<br>Moderate + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Slight + to Moderate +<br>Not Applicable<br><br>Slight + to Moderate +<br>Slight + to Moderate +<br><br>Negligible<br>Negligible<br>Slight + to Moderate +<br>Not Applicable<br><br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight + to Moderate +   |
| Water Resource Problem / Consideration   | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible<br>Negligible to Moderate +<br>Negligible to Moderate +<br>Negligible<br>Negligible<br>Negligible to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Negligible<br><br>Negligible to Moderate +<br>Slight + to Moderate +<br>Moderate + to Significant +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible<br>Negligible to Significant +<br>Negligible to Slight +<br>Slight + to Moderate + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air</b> Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift:</u> Onsite<br>(i) <u>Airborne Chemical Drift:</u> Offsite<br>(j) <u>Airborne Odors</u> | Slight +<br>Slight +<br>Slight +<br>Slight +<br>Slight +<br>Slight +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Negligible   |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Negligible to Significant +<br>Negligible to Significant +<br>Negligible to Moderate +   |
| <b>Plant</b> Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Slight + to Significant +<br>Slight + to Significant +   |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Negligible to Significant +<br>Negligible to Significant +<br>Negligible to Significant +<br>Negligible to Significant +<br>Not Applicable<br>Negligible to Significant +<br>Negligible to Significant +<br>Negligible to Significant +<br>Negligible to Significant + |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Negligible to Significant +<br>Moderate + to Significant +<br>Negligible to Slight +   |
| <b>Animal</b> Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Slight +<br>Slight +<br>Slight +<br>Slight +<br>Slight +<br>Slight +   |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Negligible<br>Negligible to Moderate +   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Hedgerow Planting (422)

| Soil Resource Problem / Consideration  | Effect   |
|--|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Slight +<br>Slight + to Significant +<br>Slight +<br>Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Negligible to Slight +<br>Negligible to Slight +   |
| Water Resource Problem / Consideration   | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible to Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect  |
|--|---|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br><b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight + |
| Plant Resource Problem / Consideration   | Effect  |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br><b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Slight +<br>Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Not Applicable<br>Negligible to Slight +<br>Negligible to Slight +<br>Moderate +<br>Slight + to Significant +<br>Slight +<br>Slight +<br>Negligible   |
| Animal Resource Problem / Consideration  | Effect  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br><b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Moderate +<br>Significant +<br>Negligible to Slight +<br>Moderate +<br>Significant +<br>Negligible to Slight +<br>Negligible to Significant +<br>Negligible to Moderate +   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irr. Canal or Lateral (320)

| Soil Resource Problem / Consideration   | Effect  |
|---|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Negligible<br>Not Applicable<br>Negligible<br>Negligible to Slight -<br>Slight - to Significant -<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br><br>Negligible<br>Not Applicable<br><br>Slight - to Significant -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br><br>Negligible<br>Negligible<br>Negligible<br>Negligible  |
| Water Resource Problem / Consideration  | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Moderate - to Significant -<br>Negligible<br>Moderate - to Significant -<br>Not Applicable<br>Slight - to Moderate -<br>Not Applicable<br>Moderate - to Significant -<br>Slight - to Moderate -<br>Slight - to Moderate -<br><br>Negligible<br>Negligible<br>Negligible to Significant -<br>Negligible<br>Negligible<br><br>Slight -<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Significant - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect  |
|--|---|
| <p>1. Quality</p> <ul style="list-style-type: none"> <li>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Onsite</li> <li>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u>: Offsite</li> <li>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Onsite</li> <li>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u>: Offsite</li> <li>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Onsite</li> <li>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u>: Offsite</li> <li>(g) Airborne Sediment Particulates Causing Conveyance Problems</li> <li>(h) <u>Airborne Chemical Drift</u>: Onsite</li> <li>(i) <u>Airborne Chemical Drift</u>: Offsite</li> <li>(j) Airborne Odors</li> </ul> <p>2. Condition</p> <ul style="list-style-type: none"> <li>(a) Air Temperature</li> <li>(b) Air Movement</li> <li>(c) Humidity</li> </ul> | <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Negligible</p>   |
| Plant Resource Problem / Consideration   | Effect  |
| <p>1. Suitability</p> <ul style="list-style-type: none"> <li>(a) Plants are not well adapted to site</li> <li>(b) Plants are unsuitable for intended use</li> </ul> <p>2. Condition</p> <p><u>Productivity (Kinds, Amounts, &amp; Distribution)</u></p> <ul style="list-style-type: none"> <li>(a) Cropland</li> <li>(b) Hayland and Pastureland</li> <li>(c) Rangeland</li> <li>(d) Seeded Rangeland</li> <li>(e) Annual Rangeland</li> <li>(f) Forestland</li> <li>(g) Other Land (Wildlife, Recreation, etc.)</li> <li>(h) Health and Vigor</li> <li>(i) Plant Damage by Wind Erosion</li> </ul> <p>3. Management</p> <ul style="list-style-type: none"> <li>(a) Establishment, Growth, and Harvest</li> <li>(b) Nutrient Management</li> <li>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)</li> </ul>   | <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight + to Significant +</p> <p>Slight + to Significant +</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Slight + to Significant +</p> <p>Not Applicable</p> <p>Negligible</p> <p>Negligible</p> <p>Slight - to Significant -</p> |
| Animal Resource Problem / Consideration  | Effect  |
| <p>1. Habitat</p> <p><u>Domestic Animals</u></p> <ul style="list-style-type: none"> <li>(a) Food</li> <li>(b) Cover or Shelter</li> <li>(c) Quantity and Quality of Drinking Water</li> </ul> <p><u>Wildlife</u></p> <ul style="list-style-type: none"> <li>(d) Food</li> <li>(e) Cover or Shelter</li> <li>(f) Quantity and Quality of Drinking Water</li> </ul> <p>2. Management</p> <ul style="list-style-type: none"> <li>(a) Population / Resource Balance</li> <li>(b) Animal Health</li> </ul>  | <p>Slight + to Moderate +</p> <p>Slight + to Significant +</p> <p>Negligible to Moderate +</p> <p>Slight + to Moderate +</p> <p>Slight + to Significant +</p> <p>Negligible to Moderate +</p> <p>Slight + to Moderate +</p> <p>Negligible</p>   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irrig. Field Ditch (388)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Negligible<br>Not Applicable<br>Negligible<br>Negligible to Slight -<br>Slight - to Moderate -<br>Negligible to Slight -<br>Negligible<br>Not Applicable<br>Not Applicable<br>Negligible<br>Not Applicable<br>Negligible<br>Negligible<br>Slight - to Significant -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible   |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Moderate - to Significant -<br>Negligible<br>Moderate - to Significant -<br>Not Applicable<br>Slight + to Moderate +<br>Not Applicable<br>Moderate - to Significant -<br>Slight - to Moderate -<br>Slight - to Moderate -<br>Negligible<br>Negligible<br>Negligible to Significant -<br>Negligible<br>Negligible<br>Slight -<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Significant - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect   |
|--|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift:</u> Onsite<br>(i) <u>Airborne Chemical Drift:</u> Offsite<br>(j) Airborne Odors<br><b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible   |
| Plant Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br><b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Not Applicable<br>Negligible<br>Negligible<br>Slight - to Significant - |
| Animal Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br><b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight + to Moderate +<br>Slight + to Significant +<br>Negligible to Moderate +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Negligible to Moderate +<br>Slight + to Moderate +<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irrigation Land Leveling (464)

| Soil Resource Problem / Consideration  | Effect   |
|--|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Slight + to Slight -<br>Negligible<br>Slight + to Slight -<br>Negligible<br>Negligible<br>Slight + to Significant +<br>Not Applicable<br>Negligible<br>Not Applicable<br>Significant + to Significant -<br>Significant + to Significant -<br>Significant + to Significant -<br>Negligible<br>Negligible<br>Slight + to Slight -<br>Slight + to Slight -<br>Slight + to Slight -<br>Slight + to Slight -<br>Slight + to Slight -  |
| Water Resource Problem / Consideration   | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Negligible<br>Slight + to Significant +<br>Not Applicable<br>Moderate + to Moderate -<br>Moderate + to Moderate -<br>Moderate + to Moderate -<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Negligible<br>Moderate + to Moderate -<br>Negligible<br>Negligible<br>Negligible<br>Moderate + to Moderate - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air Resource Problem / Consideration</b>  | <b>Effect</b>  |
|--|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u><br><b>2. Condition</b><br>(a) <u>Air Temperature</u><br>(b) <u>Air Movement</u><br>(c) <u>Humidity</u> | Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable   |
| <b>Plant Resource Problem / Consideration</b>  | <b>Effect</b>  |
| <b>1. Suitability</b><br>(a) <u>Plants are not well adapted to site</u><br>(b) <u>Plants are unsuitable for intended use</u><br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) <u>Cropland</u><br>(b) <u>Hayland and Pastureland</u><br>(c) <u>Rangeland</u><br>(d) <u>Seeded Rangeland</u><br>(e) <u>Annual Rangeland</u><br>(f) <u>Forestland</u><br>(g) <u>Other Land (Wildlife, Recreation, etc.)</u><br>(h) <u>Health and Vigor</u><br>(i) <u>Plant Damage by Wind Erosion</u><br><b>3. Management</b><br>(a) <u>Establishment, Growth, and Harvest</u><br>(b) <u>Nutrient Management</u><br>(c) <u>Pests (Brush, Weeds, Insects, Diseases, and Fungi)</u>  | Negligible to Moderate +<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant + |
| <b>Animal Resource Problem / Consideration</b>   | <b>Effect</b>  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) <u>Food</u><br>(b) <u>Cover or Shelter</u><br>(c) <u>Quantity and Quality of Drinking Water</u><br><u>Wildlife</u><br>(d) <u>Food</u><br>(e) <u>Cover or Shelter</u><br>(f) <u>Quantity and Quality of Drinking Water</u><br><b>2. Management</b><br>(a) <u>Population / Resource Balance</u><br>(b) <u>Animal Health</u>  | Moderate + to Moderate -<br>Moderate + to Moderate -<br>Not Applicable<br>Moderate + to Moderate -<br>Moderate + to Moderate -<br>Not Applicable<br>Slight + to Moderate +<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irrigation Pit (552A)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Negligible<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible  |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible to Moderate -<br>Negligible<br>Negligible to Slight -<br>Not Applicable<br>Slight + to Significant +<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Slight + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect   |
|--|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems:</u> Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems:</u> Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems:</u> Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift:</u> Onsite<br>(i) <u>Airborne Chemical Drift:</u> Offsite<br>(j) Airborne Odors<br><b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable   |
| Plant Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br><b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Negligible<br>Slight + to Significant +<br>Not Applicable<br>Negligible |
| Animal Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br><b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Negligible<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible<br>Negligible to Slight +<br>Slight + to Significant +<br>Negligible<br>Negligible  |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irrig. Regulating Reservoir (552B)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Negligible<br>Not Applicable<br>Negligible<br>Negligible to Slight +<br>Not Applicable<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible  |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible to Moderate +<br>Negligible<br>Negligible to Slight +<br>Negligible<br>Slight + to Significant +<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Slight + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect  |
|--|---|
| 1. Quality<br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br>2. Condition<br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable  |
| Plant Resource Problem / Consideration   | Effect  |
| 1. Suitability<br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br>2. Condition<br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br>3. Management<br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Not Applicable<br>Negligible to Moderate +<br>Not Applicable<br>Negligible |
| Animal Resource Problem / Consideration  | Effect  |
| 1. Habitat<br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br>2. Management<br>(a) Population / Resource Balance<br>(b) Animal Health  | Negligible<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible<br>Negligible to Slight +<br>Slight + to Significant +<br>Negligible<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irrig. Storage Reservoir (436)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Negligible<br>Not Applicable<br>Negligible<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible to Slight -  |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible to Moderate -<br>Negligible to Slight +<br>Negligible to Slight +<br>Negligible to Slight +<br>Slight + to Significant +<br>Not Applicable<br>Negligible to Moderate -<br>Negligible to Moderate -<br>Negligible<br>Negligible to Slight -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible<br>Negligible to Slight -<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible to Slight -<br>Negligible to Moderate + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration  | Effect  |
|---|---|
| 1. Quality<br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Onsite<br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems</u> : Offsite<br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Onsite<br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems</u> : Offsite<br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Onsite<br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems</u> : Offsite<br>(g) Airborne Sediment Particulates Causing Conveyance Problems<br>(h) <u>Airborne Chemical Drift</u> : Onsite<br>(i) <u>Airborne Chemical Drift</u> : Offsite<br>(j) Airborne Odors<br>2. Condition<br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable  |
| Plant Resource Problem / Consideration  | Effect  |
| 1. Suitability<br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br>2. Condition<br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br>3. Management<br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Significant +<br>Not Applicable<br>Negligible to Moderate +<br>Not Applicable<br>Negligible |
| Animal Resource Problem / Consideration   | Effect  |
| 1. Habitat<br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br>2. Management<br>(a) Population / Resource Balance<br>(b) Animal Health   | Negligible to Slight +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Negligible to Slight +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Negligible to Slight +<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irr. Sys. (Sprinkler) (442)

| Soil Resource Problem / Consideration  | Effect   |
|--|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Negligible<br>Slight +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight +<br>Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Not Applicable<br><br>Slight + to Moderate +<br>Slight +<br><br>Negligible<br>Negligible<br>Negligible<br>Negligible<br><br>Moderate + to Significant +<br>Moderate + to Significant +<br>Slight +<br>Slight + to Significant +  |
| Water Resource Problem / Consideration   | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Significant +<br>Significant +<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br><br>Moderate + to Moderate -<br>Significant + to Moderate -<br>Significant + to Moderate -<br>Negligible<br>Negligible<br><br>Slight + to Significant +<br>Slight + to Significant +<br>Moderate + to Significant +<br>Moderate +<br>Moderate + to Significant +<br>Slight + to Significant +<br>Slight +<br>Negligible<br>Significant + to Significant - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air</b> Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u> | Negligible<br>Slight +<br>Negligible to Slight +<br>Negligible<br>Negligible to Slight +<br>Negligible<br>Negligible to Slight +<br>Negligible<br>Negligible<br>Negligible       |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Negligible<br>Negligible<br>Slight +   |
| <b>Plant</b> Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Not Applicable<br>Not Applicable   |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Slight + to Moderate +<br>Slight + to Moderate +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight + to Moderate +<br>Slight + |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Slight + to Moderate +<br>Slight +<br>Not Applicable   |
| <b>Animal</b> Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Moderate - to Significant -<br>Moderate - to Significant -<br>Moderate - to Significant -          |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight + to Significant -<br>Slight +  |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irr. Sys. (Surf. & Subsurf.) (443)

| Soil Resource Problem / Consideration   | Effect  |
|---|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Negligible to Slight +<br>Negligible<br>Slight +<br>Negligible to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight +<br>Slight + to Moderate +<br>Not Applicable<br><br>Slight +<br>Moderate + to Significant +<br><br>Negligible<br>Negligible<br>Negligible<br>Negligible<br><br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight + to Moderate + |
| Water Resource Problem / Consideration  | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance: Onsite</u><br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance: Offsite</u><br>(i) <u>Restricted Capacity For Sediment Deposition: Water Bodies, Streams, Lakes</u><br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Slight +<br>Negligible<br>Slight +<br>Significant +<br>Slight + to Moderate +<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br><br>Slight +<br>Slight +<br>Slight +<br>Negligible<br>Negligible<br><br>Slight +<br>Slight +<br>Slight + to Significant +<br>Slight +<br>Slight +<br>Slight +<br>Negligible<br>Negligible<br>Negligible<br>Slight - to Moderate - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration   | Effect   |
|--|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u><br><b>2. Condition</b><br>(a) <u>Air Temperature</u><br>(b) <u>Air Movement</u><br>(c) <u>Humidity</u> | Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible                             |
| Plant Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) <u>Plants are not well adapted to site</u><br>(b) <u>Plants are unsuitable for intended use</u><br><b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) <u>Cropland</u><br>(b) <u>Hayland and Pastureland</u><br>(c) <u>Rangeland</u><br>(d) <u>Seeded Rangeland</u><br>(e) <u>Annual Rangeland</u><br>(f) <u>Forestland</u><br>(g) <u>Other Land (Wildlife, Recreation, etc.)</u><br>(h) <u>Health and Vigor</u><br>(i) <u>Plant Damage by Wind Erosion</u><br><b>3. Management</b><br>(a) <u>Establishment, Growth, and Harvest</u><br>(b) <u>Nutrient Management</u><br>(c) <u>Pests (Brush, Weeds, Insects, Diseases, and Fungi)</u>  | Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Negligible<br>Slight + to Moderate +<br>Negligible<br>Not Applicable |
| Animal Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) <u>Food</u><br>(b) <u>Cover or Shelter</u><br>(c) <u>Quantity and Quality of Drinking Water</u><br><u>Wildlife</u><br>(d) <u>Food</u><br>(e) <u>Cover or Shelter</u><br>(f) <u>Quantity and Quality of Drinking Water</u><br><b>2. Management</b><br>(a) <u>Population / Resource Balance</u><br>(b) <u>Animal Health</u>  | Slight + to Slight -<br>Slight -<br>Slight - to Moderate -<br>Slight + to Slight -<br>Slight -<br>Slight - to Moderate -<br>Negligible<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irrigation Sys. (Tailwater Rec.) (447)

| Soil Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Negligible<br>Negligible<br>Slight +<br>Slight +<br>Negligible to Moderate +<br>Negligible<br>Negligible<br>Slight +<br>Not Applicable<br><br>Negligible<br>Negligible<br><br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible to Slight -<br>Negligible to Slight -<br><br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Moderate +   |
| Water Resource Problem / Consideration  | Effect   |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible to Slight -<br>Negligible to Slight +<br>Negligible to Slight +<br>Slight + to Significant +<br>Slight + to Significant +<br>Not Applicable<br>Negligible to Slight +<br>Negligible to Slight +<br>Slight + to Moderate +<br><br>Slight -<br>Slight -<br>Slight -<br>Slight -<br>Slight -<br><br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| Air Resource Problem / Consideration  | Effect   |
|---|--|
| 1. Quality<br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u><br>2. Condition<br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible to Slight -<br>Not Applicable<br>Not Applicable<br>Negligible   |
| Plant Resource Problem / Consideration  | Effect   |
| 1. Suitability<br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use<br>2. Condition<br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion<br>3. Management<br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Not Applicable<br>Not Applicable<br>Significant + to Moderate -<br>Significant + to Moderate -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Significant + to Moderate -<br>Negligible<br>Significant + to Moderate -<br>Negligible to Slight +<br>Slight - to Moderate - |
| Animal Resource Problem / Consideration   | Effect   |
| 1. Habitat<br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water<br>2. Management<br>(a) Population / Resource Balance<br>(b) Animal Health   | Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Significant -<br>Slight + to Moderate +<br>Moderate + to Moderate -   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irr. Sys. (Trickle) (441)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br>Soil Contaminants<br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Slight + to Moderate +<br>Negligible<br>Slight + to Moderate +<br>Negligible to Slight +<br>Negligible to Slight +<br>Slight + to Significant +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Not Applicable<br><br>Slight + to Moderate +<br>Slight + to Moderate +<br><br>Slight - to Moderate -<br>Slight -<br>Slight -<br>Slight -<br><br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +   |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Negligible to Significant +<br>Negligible to Significant +<br>Negligible to Significant +<br>Slight + to Moderate +<br>Moderate + to Significant +<br>Not Applicable<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br><br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible to Significant +<br>Negligible<br>Slight + to Significant +<br>Slight + to Significant + |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air Resource Problem / Consideration</b>   | <b>Effect</b>  |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u> | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable       |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Not Applicable<br>Not Applicable<br>Not Applicable   |
| <b>Plant Resource Problem / Consideration</b>   | <b>Effect</b>  |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Not Applicable<br>Not Applicable   |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Negligible<br>Slight +                     |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Moderate + to Significant +<br>Moderate + to Significant +<br>Negligible   |
| <b>Animal Resource Problem / Consideration</b>  | <b>Effect</b>  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Slight - to Significant -<br>Slight - to Significant -<br>Slight - to Moderate -<br>Slight - to Significant -<br>Slight - to Significant -<br>Slight - to Moderate - |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Negligible<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irr. Water Convey. (Ditch or Canal) (428)

| Soil Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Erosion</b><br>(a) Sheet and Rill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite   | Negligible<br>Not Applicable<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Slight +<br>Negligible to Moderate +<br>Negligible<br>Negligible to Moderate -<br><br>Negligible<br>Not Applicable<br><br>Negligible to Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br><br>Negligible<br>Negligible<br>Negligible<br>Negligible  |
| Water Resource Problem / Consideration   | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u> : Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition</u> : Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Moderate + to Significant +<br>Negligible<br>Moderate + to Significant +<br>Not Applicable<br>Slight + to Moderate +<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Slight +<br><br>Negligible<br>Negligible<br>Negligible to Significant +<br>Negligible<br>Negligible<br><br>Slight +<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible to Significant - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air</b> Resource Problem / Consideration  | Effect  |
|--|---|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) Airborne Odors | Negligible<br>Slight +<br>Negligible<br>Not Applicable<br>Negligible<br>Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable  |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity   | Not Applicable<br>Not Applicable<br>Negligible  |
| <b>Plant</b> Resource Problem / Consideration  | Effect  |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use   | Not Applicable<br>Not Applicable  |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion   | Significant + to Significant -<br>Significant + to Significant -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Slight - to Significant -<br>Significant + to Significant -<br>Not Applicable |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)  | Negligible<br>Negligible<br>Slight - to Moderate -  |
| <b>Animal</b> Resource Problem / Consideration   | Effect  |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water  | Slight - to Moderate -<br>Moderate - to Significant -<br>Negligible to Slight -<br>Slight - to Moderate -<br>Moderate - to Significant -<br>Negligible to Slight -  |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health   | Slight - to Moderate -<br>Negligible  |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

## Conservation Practice Physical Effects - Irr. Water Conveyance (Pipe) (430)

| Soil Resource Problem / Consideration   | Effect  |
|---|---|
| <b>1. Erosion</b><br>(a) Sheet and Fill<br>(b) Wind<br>(c) Concentrated Flow: Ephemeral Gully<br>(d) Concentrated Flow: Classic Gully<br>(e) Streambank<br>(f) Irrigation Induced<br>(g) Soil Mass Movement<br>(h) Roadbanks and Construction Sites<br>(i) Safety<br><b>2. Condition</b><br>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material<br>(b) Soil Compaction<br><u>Soil Contaminants</u><br>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals<br>(d) Excess Animal Wastes & Other Organics<br>(e) Excess Fertilizer<br>(f) Excess Pesticides<br><b>3. Deposition</b><br>(a) Damage: Onsite<br>(b) Damage: Offsite<br>(c) Safety: Onsite<br>(d) Safety: Offsite  | Negligible<br>Not Applicable<br>Negligible to Moderate +<br>Negligible<br>Negligible<br>Negligible to Slight +<br>Negligible to Moderate +<br>Negligible<br>Negligible to Moderate -<br><br>Negligible<br>Not Applicable<br><br>Negligible to Slight +<br>Not Applicable<br>Not Applicable<br>Not Applicable<br><br>Negligible<br>Negligible<br>Negligible<br>Negligible  |
| Water Resource Problem / Consideration  | Effect  |
| <b>1. Quantity</b><br>(a) Excess Amounts: Seeps<br>(b) Excess Amounts: Runoff / Flooding<br>(c) Excess Amounts: Subsurface Water<br>(d) Inadequate Outlets<br>(e) Water Management for Irrigated Land<br>(f) Water Management for Non- Irrigated Land<br>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Onsite<br>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance:</u> Offsite<br>(i) <u>Restricted Capacity For Sediment Deposition:</u> Water Bodies, Streams, Lakes<br><b>2. Quality</b><br><u>Groundwater Contaminants</u><br>(a) Pesticides<br>(b) Nutrients and Organics<br>(c) Salinity<br>(d) Heavy Metals<br>(e) Pathogens<br><u>Surface Water Contaminants (Streams and Lakes)</u><br>(g) Pesticides<br>(h) Nutrients and Organics<br>(i) Suspended Sediment and Turbidity<br>(j) Low Dissolved Oxygen<br>(k) Salinity<br>(l) Heavy Metals<br>(m) Temperature<br>(n) Pathogens<br>(o) Aquatic Habitat Suitability | Moderate + to Significant +<br>Negligible<br>Moderate + to Significant +<br>Not Applicable<br>Slight + to Moderate +<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Slight +<br><br>Negligible<br>Negligible<br>Negligible to Significant +<br>Negligible<br>Negligible<br><br>Slight +<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Negligible<br>Moderate - to Significant - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

| <b>Air</b> Resource Problem / Consideration   | Effect   |
|---|--|
| <b>1. Quality</b><br>(a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u><br>(b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u><br>(c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u><br>(d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u><br>(e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u><br>(f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u><br>(g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u><br>(h) <u>Airborne Chemical Drift: Onsite</u><br>(i) <u>Airborne Chemical Drift: Offsite</u><br>(j) <u>Airborne Odors</u> | Negligible<br>Negligible<br>Negligible<br>Negligible<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable   |
| <b>2. Condition</b><br>(a) Air Temperature<br>(b) Air Movement<br>(c) Humidity  | Not Applicable<br>Not Applicable<br>Negligible   |
| <b>Plant</b> Resource Problem / Consideration   | Effect   |
| <b>1. Suitability</b><br>(a) Plants are not well adapted to site<br>(b) Plants are unsuitable for intended use  | Not Applicable<br>Not Applicable   |
| <b>2. Condition</b><br><u>Productivity (Kinds, Amounts, &amp; Distribution)</u><br>(a) Cropland<br>(b) Hayland and Pastureland<br>(c) Rangeland<br>(d) Seeded Rangeland<br>(e) Annual Rangeland<br>(f) Forestland<br>(g) Other Land (Wildlife, Recreation, etc.)<br>(h) Health and Vigor<br>(i) Plant Damage by Wind Erosion  | Significant + to Significant -<br>Significant + to Significant -<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Significant + to Significant -<br>Significant + to Significant -<br>Not Applicable |
| <b>3. Management</b><br>(a) Establishment, Growth, and Harvest<br>(b) Nutrient Management<br>(c) Pests (Brush, Weeds, Insects, Diseases, and Fungi)   | Negligible<br>Negligible<br>Slight + to Moderate +   |
| <b>Animal</b> Resource Problem / Consideration  | Effect   |
| <b>1. Habitat</b><br><u>Domestic Animals</u><br>(a) Food<br>(b) Cover or Shelter<br>(c) Quantity and Quality of Drinking Water<br><u>Wildlife</u><br>(d) Food<br>(e) Cover or Shelter<br>(f) Quantity and Quality of Drinking Water   | Slight - to Moderate -<br>Moderate - to Significant -<br>Negligible to Significant -<br>Slight - to Moderate -<br>Moderate - to Significant -<br>Negligible to Significant -   |
| <b>2. Management</b><br>(a) Population / Resource Balance<br>(b) Animal Health  | Slight - to Moderate -<br>Negligible   |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.

**Conservation Practice Physical Effects - Irr. Water Mgmt. (449)**

| Soil Resource Problem / Consideration   | Effect   |
|---|--|
| 1. Erosion <ul style="list-style-type: none"> <li>(a) Sheet and Rill</li> <li>(b) Wind</li> <li>(c) Concentrated Flow: Ephemeral Gully</li> <li>(d) Concentrated Flow: Classic Gully</li> <li>(e) Streambank</li> <li>(f) Irrigation Induced</li> <li>(g) Soil Mass Movement</li> <li>(h) Roadbanks and Construction Sites</li> <li>(i) Safety</li> </ul>   | Negligible<br>Slight + to Moderate +<br>Slight +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Moderate + to Significant +<br>Slight + to Moderate +<br>Negligible<br>Not Applicable  |
| 2. Condition <ul style="list-style-type: none"> <li>(a) Soil Tilth, Crusting, Water Infiltration, Organic Material</li> <li>(b) Soil Compaction               <ul style="list-style-type: none"> <li><u>Soil Contaminants</u> <ul style="list-style-type: none"> <li>(c) Excess Chemical Content, Salinity, Selenium, Boron, Heavy Metals</li> <li>(d) Excess Animal Wastes &amp; Other Organics</li> <li>(e) Excess Fertilizer</li> <li>(f) Excess Pesticides</li> </ul> </li> </ul> </li> </ul>   | Moderate + to Significant +<br>Slight + to Significant +<br>Moderate + to Significant +<br>Moderate + to Significant +<br>Moderate + to Significant +<br>Moderate + to Significant +   |
| 3. Deposition <ul style="list-style-type: none"> <li>(a) Damage: Onsite</li> <li>(b) Damage: Offsite</li> <li>(c) Safety: Onsite</li> <li>(d) Safety: Offsite</li> </ul>  | Moderate + to Significant +<br>Slight + to Moderate +<br>Moderate + to Significant +<br>Moderate + to Significant +  |
| Water Resource Problem / Consideration  | Effect   |
| 1. Quantity <ul style="list-style-type: none"> <li>(a) Excess Amounts: Seeps</li> <li>(b) Excess Amounts: Runoff / Flooding</li> <li>(c) Excess Amounts: Subsurface Water</li> <li>(d) Inadequate Outlets</li> <li>(e) Water Management for Irrigated Land</li> <li>(f) Water Management for Non- Irrigated Land</li> <li>(g) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u>: Onsite</li> <li>(h) <u>Restricted Capacity From Sediment Deposition in Small Water Conveyance</u>: Offsite</li> <li>(i) <u>Restricted Capacity For Sediment Deposition</u>: Water Bodies, Streams, Lakes</li> </ul>  | Slight + to Moderate +<br>Negligible to Slight +<br>Slight + to Moderate +<br>Negligible<br>Significant +<br>Not Applicable<br>Moderate + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +   |
| 2. Quality <ul style="list-style-type: none"> <li><u>Groundwater Contaminants</u> <ul style="list-style-type: none"> <li>(a) Pesticides</li> <li>(b) Nutrients and Organics</li> <li>(c) Salinity</li> <li>(d) Heavy Metals</li> <li>(e) Pathogens</li> </ul> </li> <li><u>Surface Water Contaminants (Streams and Lakes)</u> <ul style="list-style-type: none"> <li>(g) Pesticides</li> <li>(h) Nutrients and Organics</li> <li>(i) Suspended Sediment and Turbidity</li> <li>(j) Low Dissolved Oxygen</li> <li>(k) Salinity</li> <li>(l) Heavy Metals</li> <li>(m) Temperature</li> <li>(n) Pathogens</li> </ul> </li> <li>(o) Aquatic Habitat Suitability</li> </ul> | Slight + to Significant +<br>Slight + to Significant +<br>Slight + to Significant +<br>Negligible<br>Slight +<br>Slight + to Moderate +<br>Slight + to Moderate +<br>Slight + to Significant +<br>Slight +<br>Slight +<br>Slight + to Moderate +<br>Negligible<br>Negligible<br>Significant + to Significant - |

Additional guidance for determining effects for a specific practice can be found in the FOTG National CPPE Reference.



## Conservation Practice Physical Effects - Irr. Water Mgmt. (449), page 2

| Air Resource Problem / Consideration  | Effect                         |
|---|--------------------------------|
| 1. Quality  |                                |
| (a) <u>Sediment and Smoke Particulates Causing Safety Problems: Onsite</u>                  | Negligible                     |
| (b) <u>Sediment and Smoke Particulates Causing Safety Problems: Offsite</u>                 | Negligible                     |
| (c) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Onsite</u>  | Negligible                     |
| (d) <u>Sediment Particulates Causing Machinery, Vehicle, or Structure Problems: Offsite</u> | Negligible                     |
| (e) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Onsite</u>         | Negligible                     |
| (f) <u>Airborne Sediment and Smoke Particulates Causing Health Problems: Offsite</u>        | Negligible                     |
| (g) <u>Airborne Sediment Particulates Causing Conveyance Problems</u>                       | Negligible                     |
| (h) <u>Airborne Chemical Drift: Onsite</u>  | Negligible                     |
| (i) <u>Airborne Chemical Drift: Offsite</u>   | Negligible                     |
| (j) <u>Airborne Odors</u>   | Negligible                     |
| 2. Condition  |                                |
| (a) <u>Air Temperature</u>  | Negligible                     |
| (b) <u>Air Movement</u>   | Negligible                     |
| (c) <u>Humidity</u>   | Negligible                     |
| <b>Plant Resource Problem / Consideration</b>   | <b>Effect</b>                  |
| 1. Suitability  |                                |
| (a) <u>Plants are not well adapted to site</u>  | Slight + to Moderate +         |
| (b) <u>Plants are unsuitable for intended use</u>   | Not Applicable                 |
| 2. Condition  |                                |
| <u>Productivity (Kinds, Amounts, &amp; Distribution)</u>                                    |                                |
| (a) <u>Cropland</u>   | Slight + to Moderate +         |
| (b) <u>Hayland and Pastureland</u>  | Slight + to Moderate +         |
| (c) <u>Rangeland</u>  | Not Applicable                 |
| (d) <u>Seeded Rangeland</u>   | Not Applicable                 |
| (e) <u>Annual Rangeland</u>   | Not Applicable                 |
| (f) <u>Forestland</u>   | Not Applicable                 |
| (g) <u>Other Land (Wildlife, Recreation, etc.)</u>  | Not Applicable                 |
| (h) <u>Health and Vigor</u>   | Slight + to Moderate +         |
| (i) <u>Plant Damage by Wind Erosion</u>   | Not Applicable                 |
| 3. Management   |                                |
| (a) <u>Establishment, Growth, and Harvest</u>   | Slight + to Moderate +         |
| (b) <u>Nutrient Management</u>  | Moderate + to Significant +    |
| (c) <u>Pests (Brush, Weeds, Insects, Diseases, and Fungi)</u>                               | Slight +                       |
| <b>Animal Resource Problem / Consideration</b>  | <b>Effect</b>                  |
| 1. Habitat  |                                |
| <u>Domestic Animals</u>   |                                |
| (a) <u>Food</u>   | Slight + to Moderate +         |
| (b) <u>Cover or Shelter</u>   | Significant + to Significant - |
| (c) <u>Quantity and Quality of Drinking Water</u>   | Slight -                       |
| <u>Wildlife</u>   |                                |
| (d) <u>Food</u>   | Slight + to Moderate +         |
| (e) <u>Cover or Shelter</u>   | Significant + to Significant - |
| (f) <u>Quantity and Quality of Drinking Water</u>   | Slight -                       |
| 2. Management   |                                |
| (a) <u>Population / Resource Balance</u>  | Slight + to Moderate +         |
| (b) <u>Animal Health</u>  | Slight +                       |

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